CLAIMS

1. An isolated nucleic acid comprising a promoter having a sequence of SEQ ID NO: 1, wherein the promoter has stem-regulated promoter activity.

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An isolated nucleic acid comprising a promoter having a sequence at least 65% homologous with SEQ ID NO:
 wherein the promoter has stem-regulated promoter activity.

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3. An isolated nucleic acid comprising an OMT promoter and an exogenous nucleic acid, wherein the OMT promoter is operable to drive stem-regulated expression or transcription of the exogenous nucleic acid.

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4. The nucleic acid of Claim 3, wherein the OMT promoter is further operable to drive upregulated stemregulated expression or transcription in the present of a defense-inducing agent.

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5. An expression vector comprising, in a in a 5' to 3' direction:

an OMT promoter;

an exogenous nucleic acid; and

a 3' termination sequence.

- 6. The expression vector of Claim 5, wherein the exogenous nucleic acid comprises a transgene.
- 7. A plant cell comprising an expression vector having:

an OMT promoter;

an exogenous nucleic acid; and

a 3' termination sequence.

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- 8. The plant cell of Claim 7, wherein the exogenous nucleic acid comprises a transgene.
- 9. The plant cell of Claim 7, wherein the exogenous nucleic acid alters carbon metabolism in the plant cell when expressed or transcribed.
- 10. The plant cell of Claim 7, wherein the exogenous nucleic acid encodes an insecticide effective against at20 least one stem-boring insect.
 - 11. A plant comprising an expression vector having:
 an OMT promoter;

an exogenous nucleic acid; and

a 3' termination sequence,

wherein expression of the exogenous nucleic acid is stem-regulated .

- 5 12. The plant of Claim 11, wherein expression of the exogenous nucleic acid is upregulated by the presence of a defense-inducing agent.
- 13. The plant of Claim 11, wherein the exogenous10 nucleic acid alters carbon metabolism in the plant cell when expressed or transcribed.
- 14. The plant of Claim 11, wherein the exogenous nucleic acid encodes an insecticide effective against at least one stem-boring insect.
 - 15. The plant of Claim 11, wherein the plant is a monocot.
- 20 16. The plant of Claim 11, wherein the plant is selected from the group consisting of: sugarcane, sorghum, rice, maize and any hybrids thereof.
- 17. A bacterial cell comprising an expression vector 25 having:

an OMT promoter;

an exogenous nucleic acid; and

a 3' termination sequence.

5 18. A method of directing stem-regulated expression of a nucleic acid in a plant comprising:

providing an expression nucleic acid having an OMT promoter, an exogenous nucleic acid and a 3' termination sequence; and

transforming a plant with the expression nucleic acid; wherein expression of the exogenous nucleic acid is stem-regulated.

- 19. The method of Claim 18, further comprising15 providing the expression nucleic acid in an expression vector.
- 20. The method of Claim 18, wherein transforming further comprises gene gun/biolistic-mediated

 20 transformation.
 - 21. The method of Claim 18, wherein transforming further comprises Agrobacterium-mediated transformation.

- 22. The method of Claim 18, further comprising transforming an embryonic callus.
- 23. The method of Claim 22, further comprising regenerating a plant from the embryonic callus.
 - 24. The method of Claim 18, further comprising transforming a plant cell.
- 10 25. The method of Claim 18, further comprising breeding progeny of the transformed plant.
 - 26. A method of directing stem-regulated expression of a nucleic acid in a plant comprising:
- providing an expression nucleic acid having an OMT promoter, an exogenous nucleic acid and a 3' termination sequence; and

transforming a plant with the expression nucleic acid;
wherein expression of the exogenous nucleic acid is
induced by a defense-inducing agent.

27. The method of Claim 26, further comprising providing the expression nucleic acid in an expression vector.

- 28. The method of Claim 26, wherein transforming further comprises gene gun/biolistic-mediated transformation.
- 5 29. The method of Claim 26, wherein transforming further comprises Agrobacterium-mediated transformation.
 - 30. The method of Claim 26, further comprising transforming an embryonic callus.

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- 31. The method of Claim 30, further comprising regenerating a plant from the embryonic callus.
- 32. The method of Claim 26, further comprising transforming a plant cell.
 - 33. The method of Claim 26, further comprising breeding progeny of the transformed plant.

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